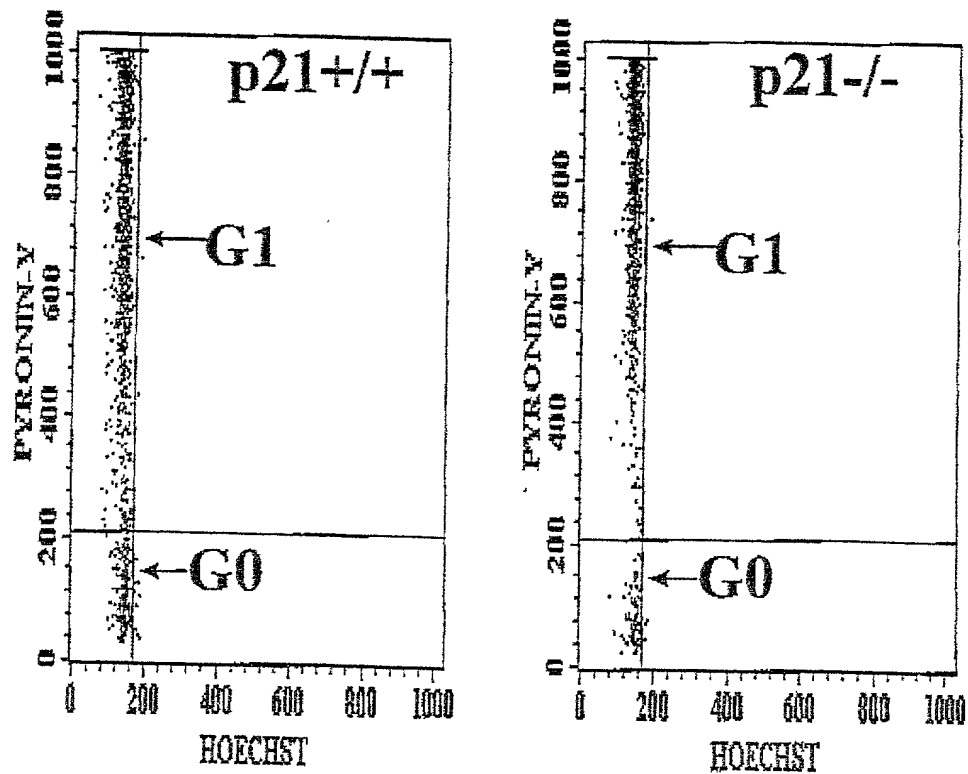


a



b

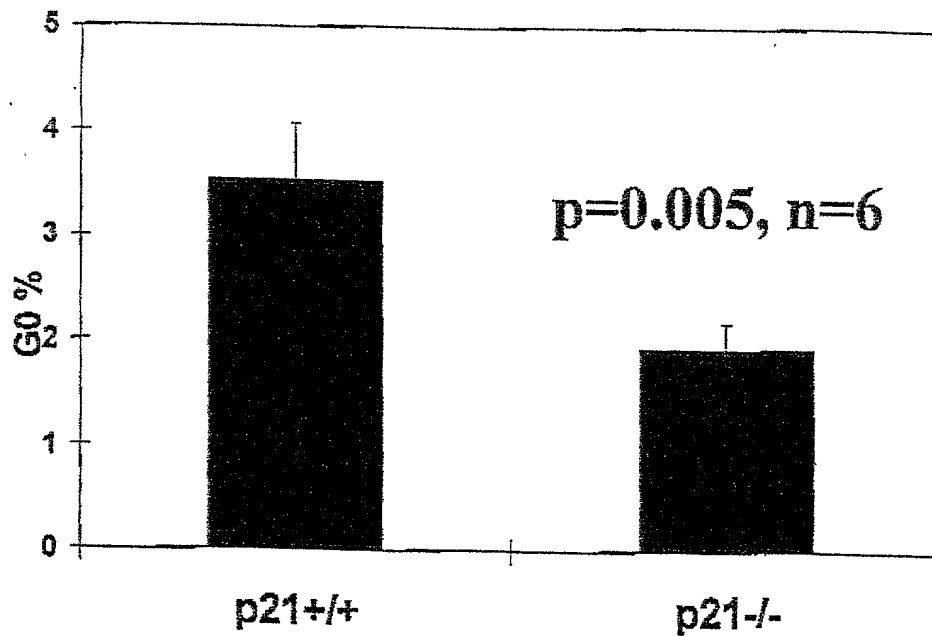
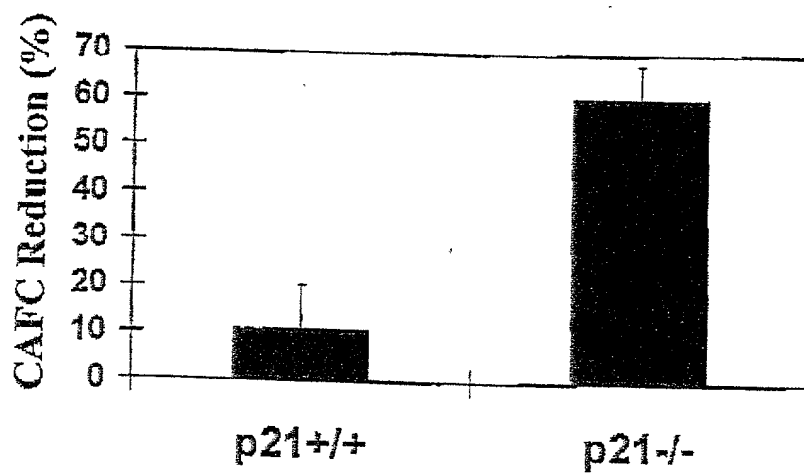


Fig. 1

a



b

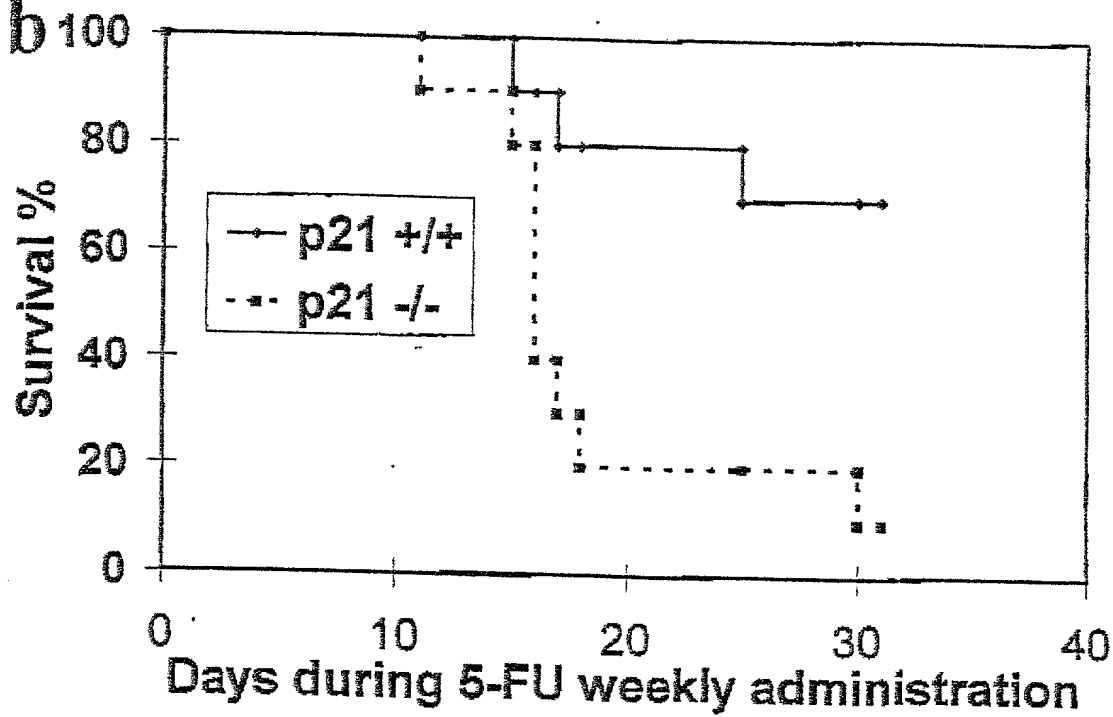
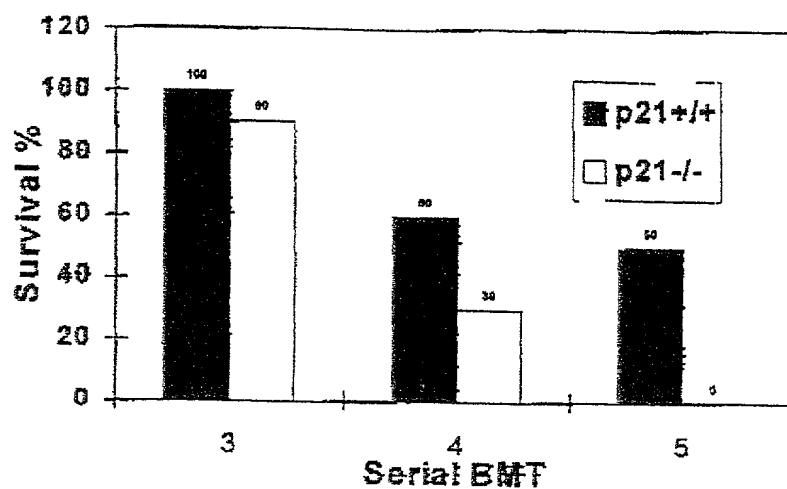
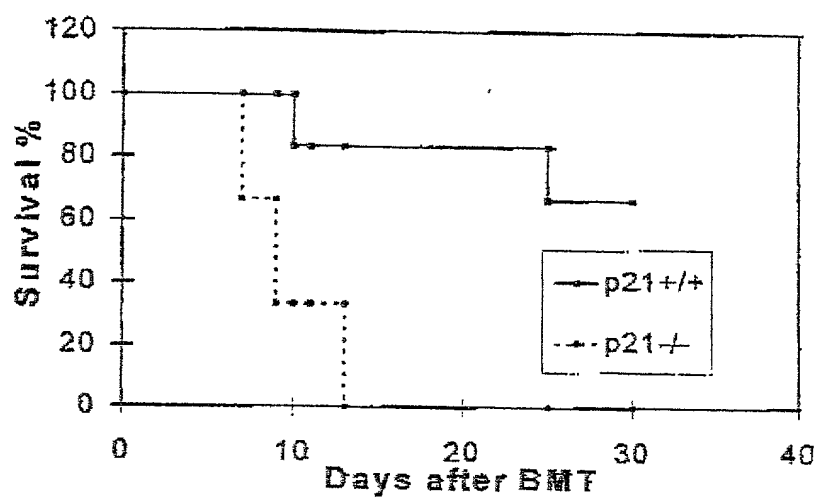


Fig. 2

a



b



c

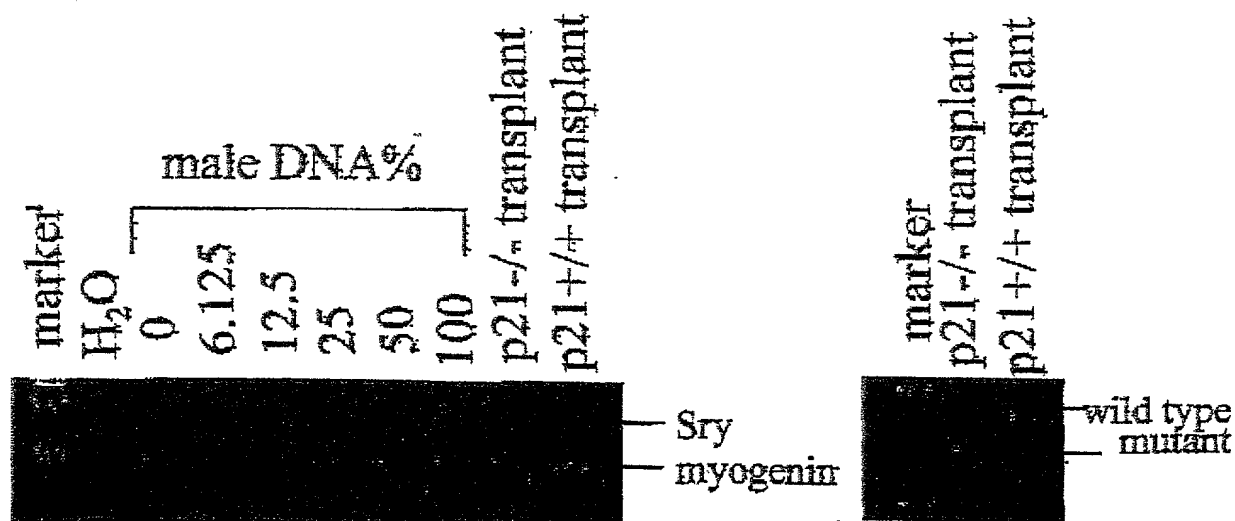
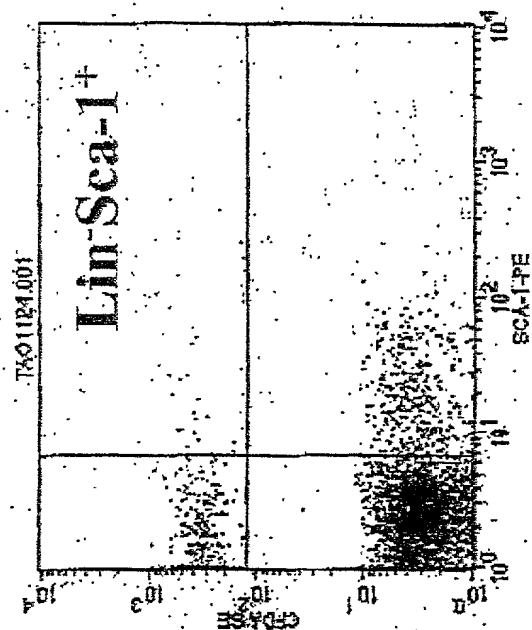


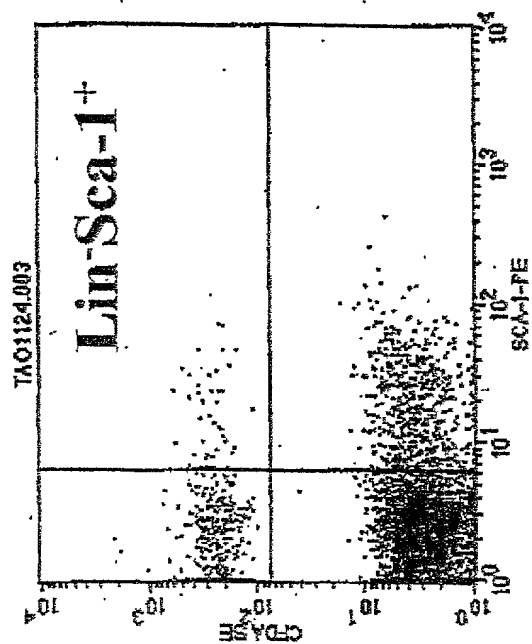
Fig. 3

CFSE staining

p21+/+



p21-/-



Sca-1 staining

Fig. 4

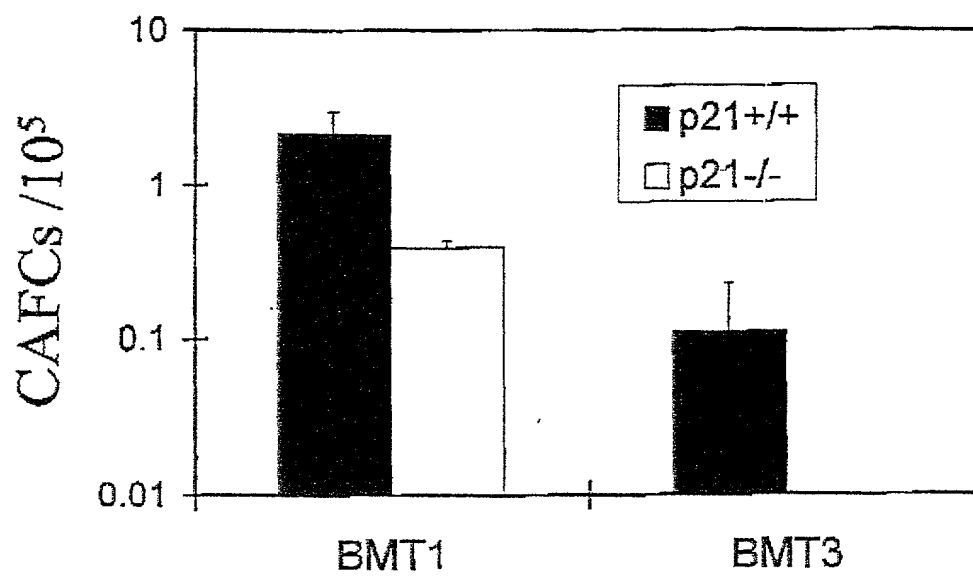
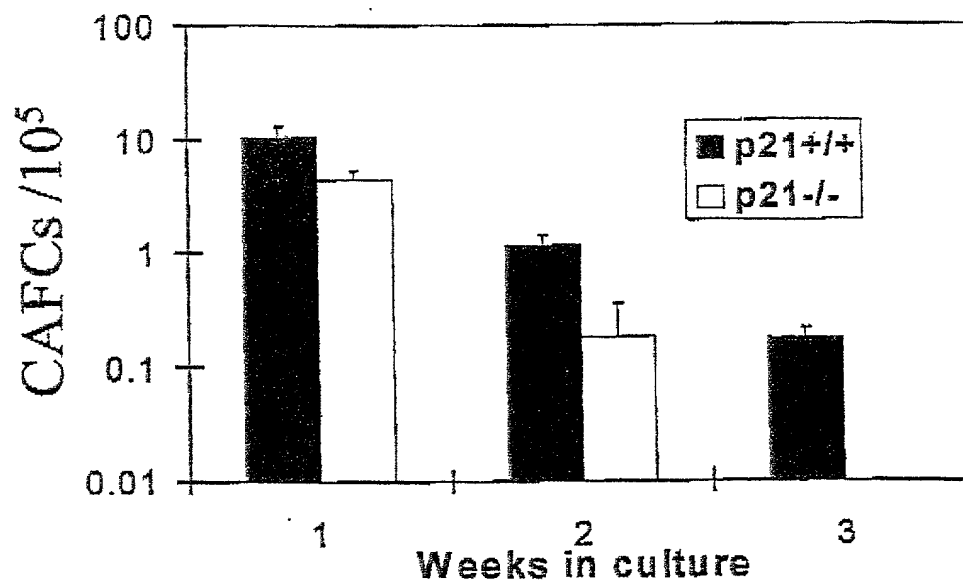
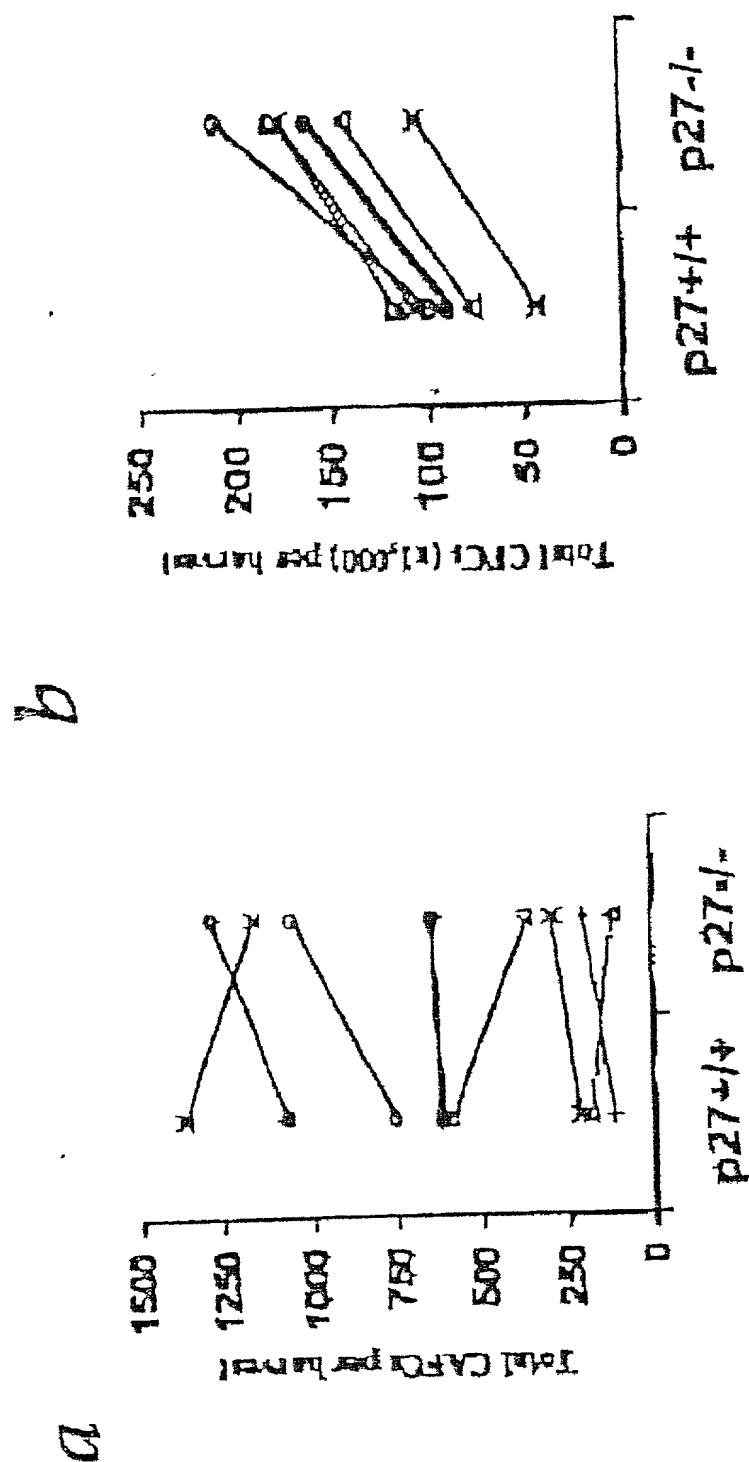
a**b**

Fig. 5

Fig. 6

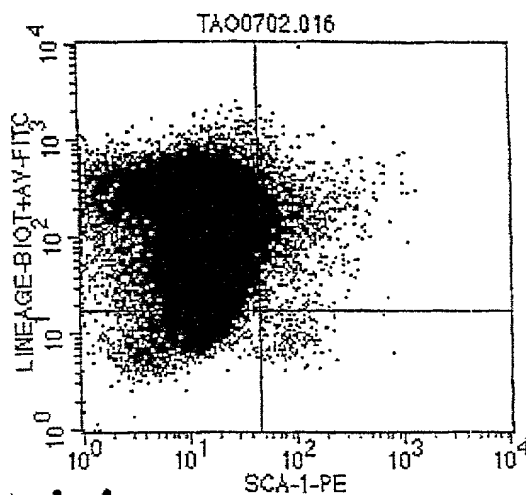
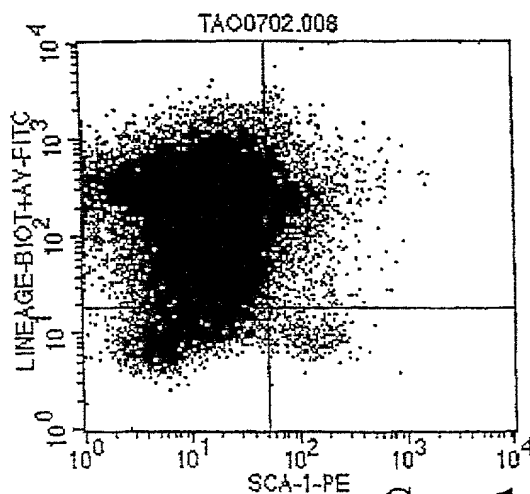


(a)

Lineage markers

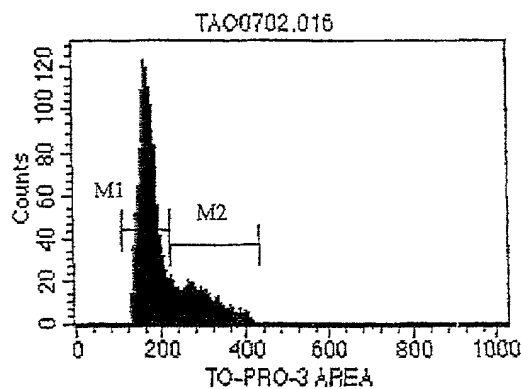
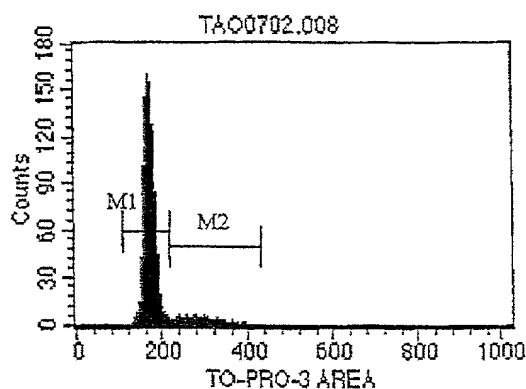
p27^{+/+}

p27^{-/-}

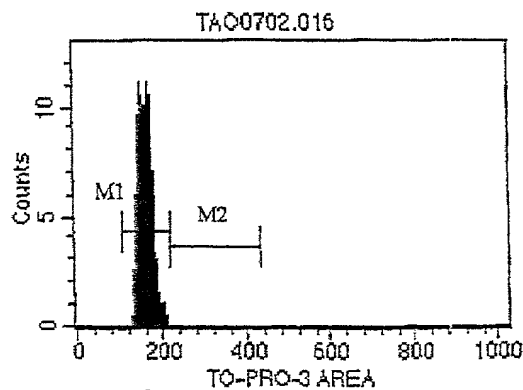
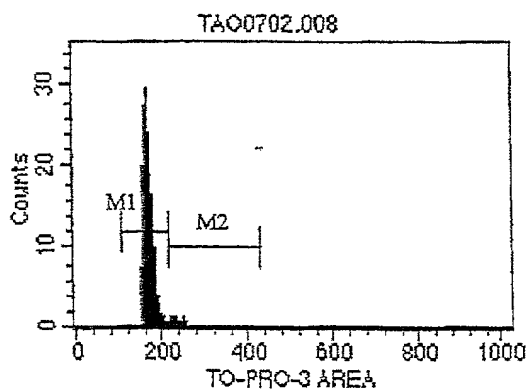


Sca-1 staining →

Sca-1⁺
Lin⁺



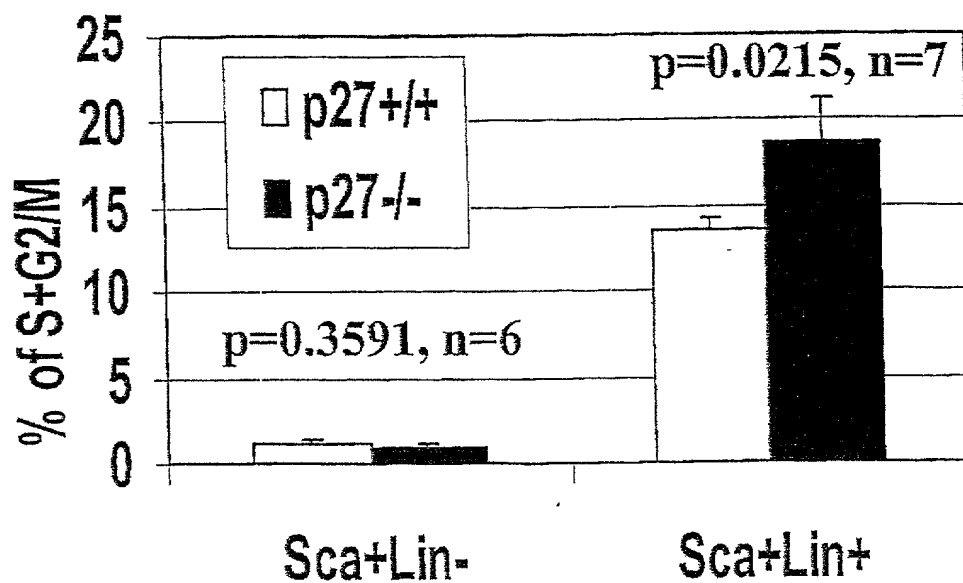
Sca-1⁺
Lin⁻



To-pro-3 staining →

Figure
7

(b)



(c)

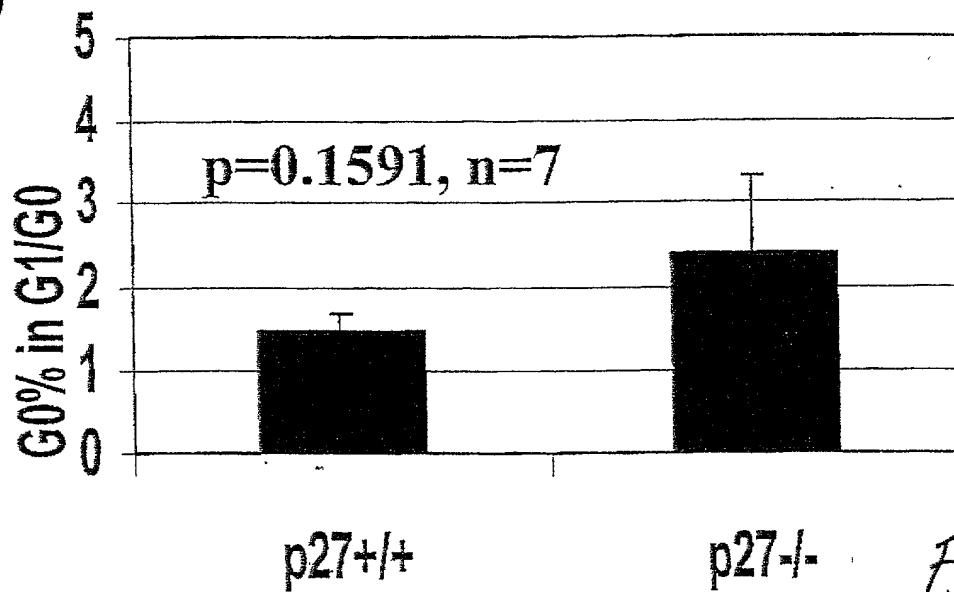
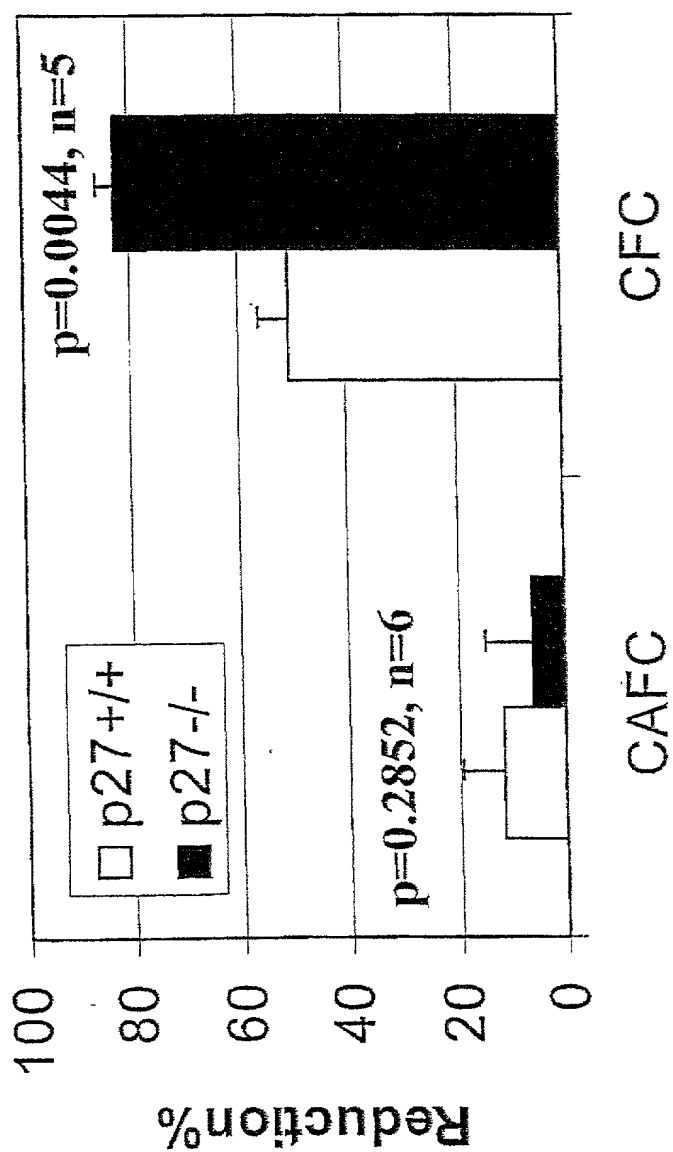


Fig. 7C
Fig. 7B

Figure 8



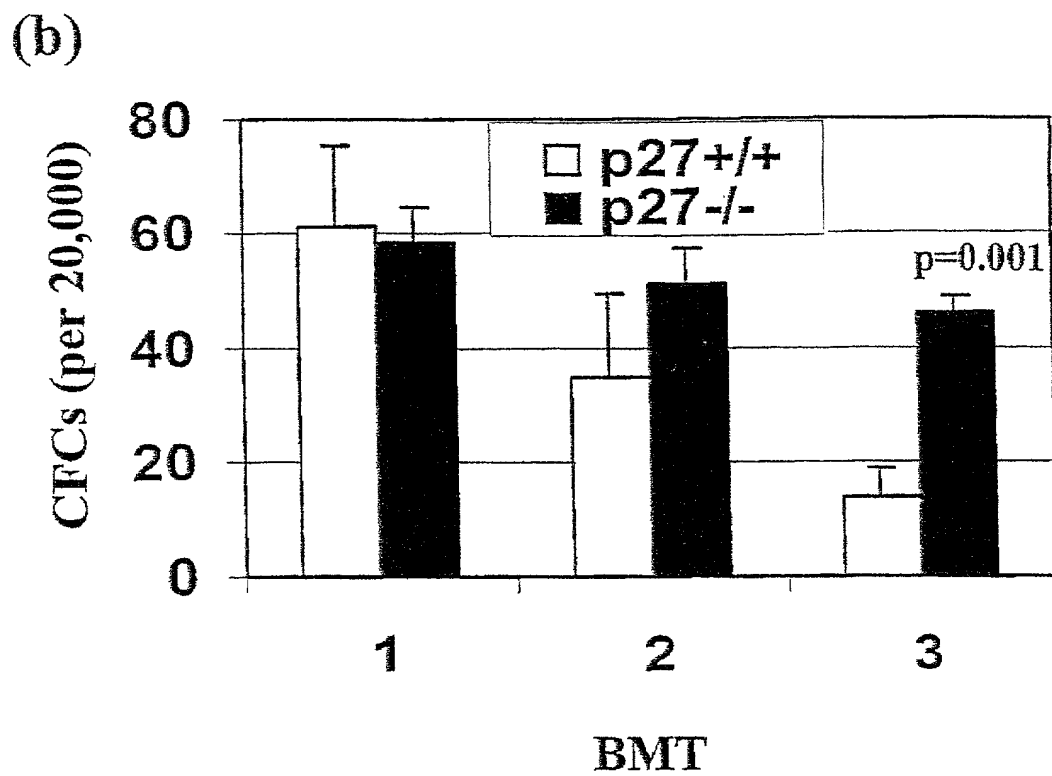
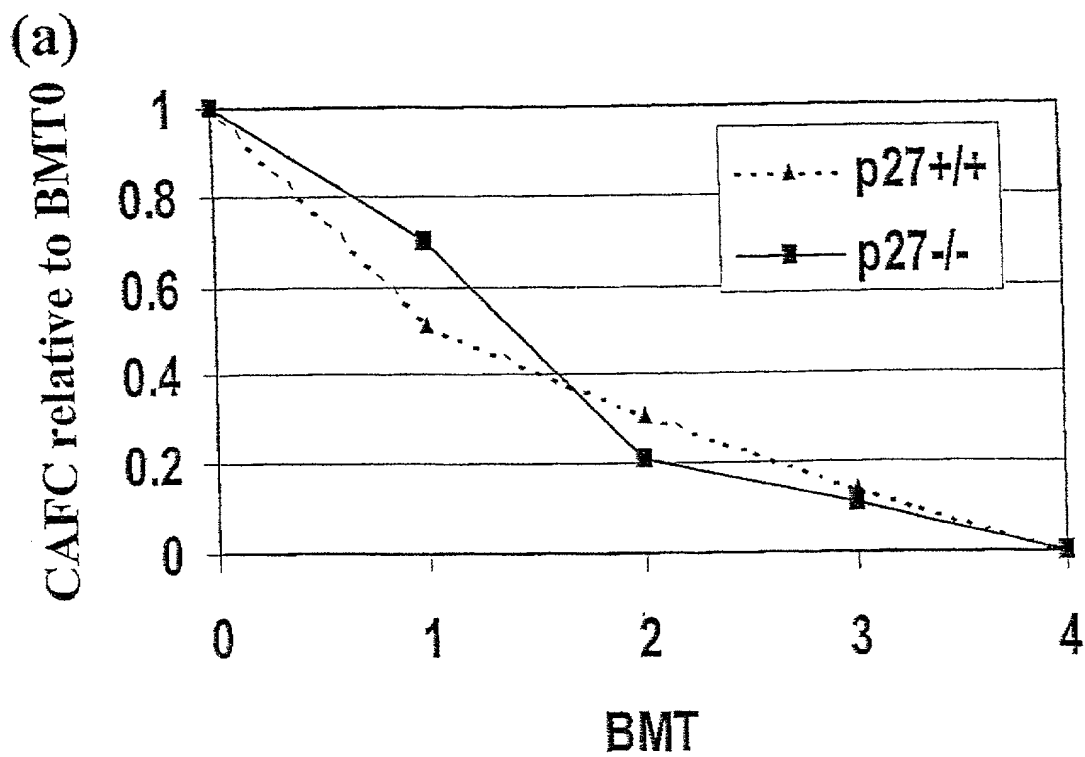


Figure 9

(c)

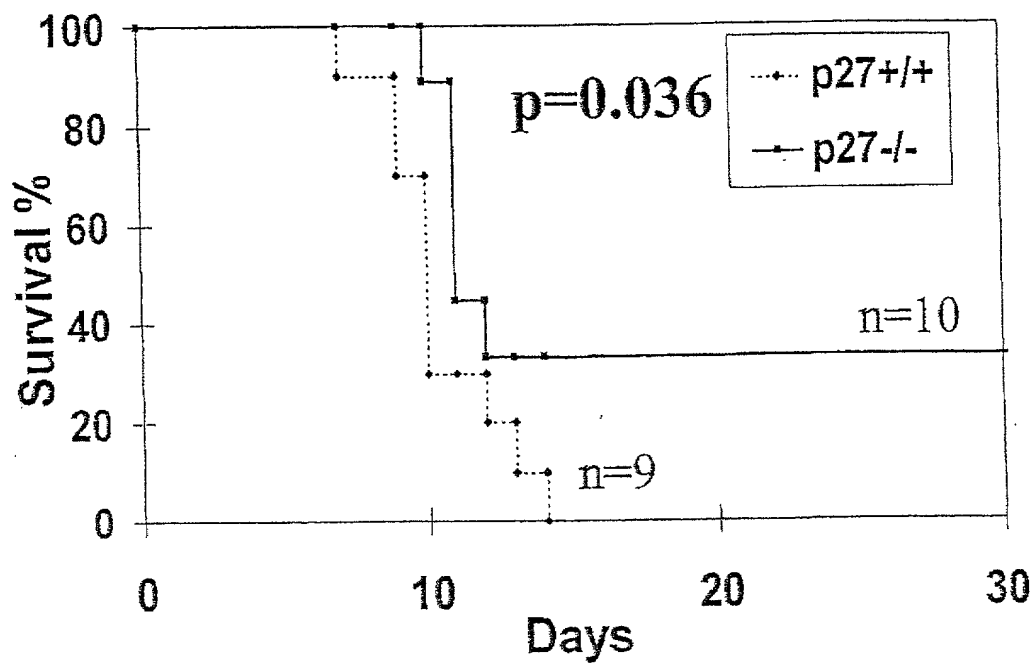
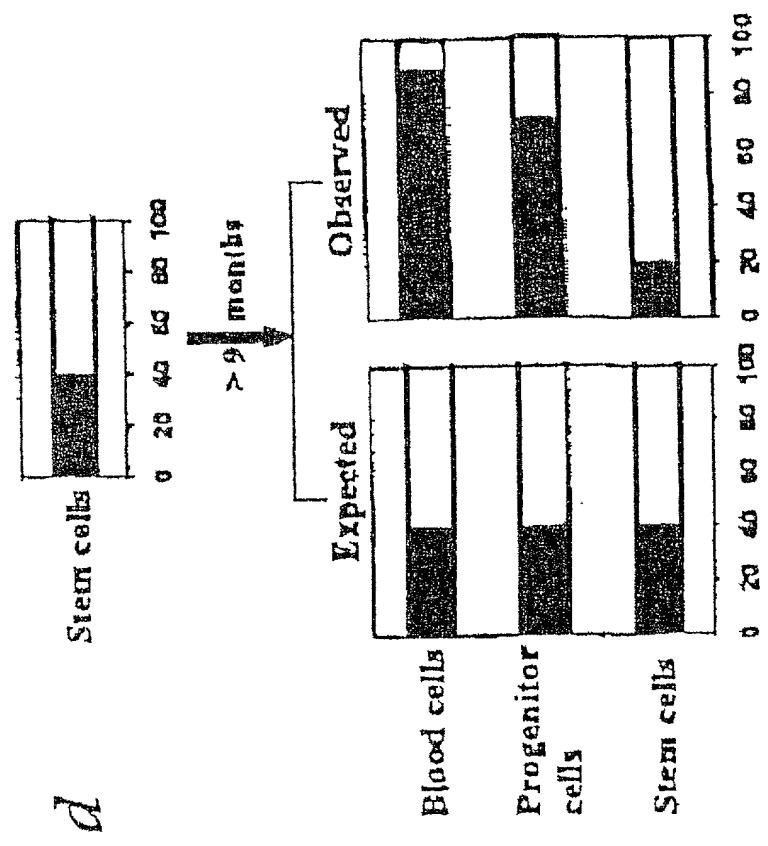
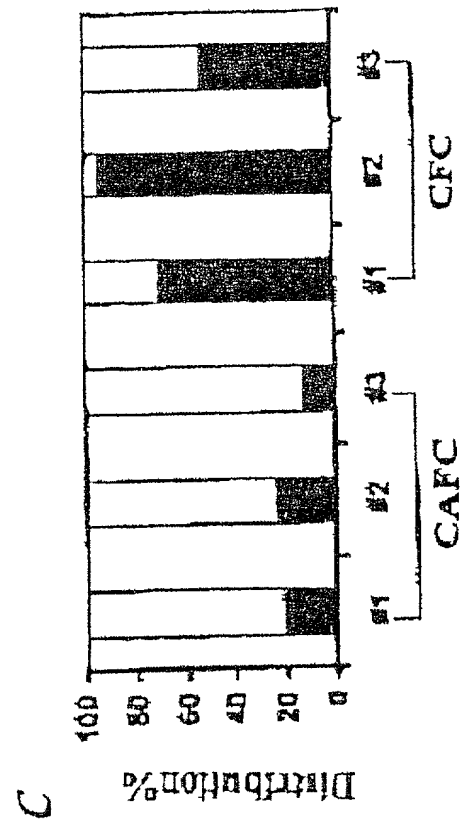
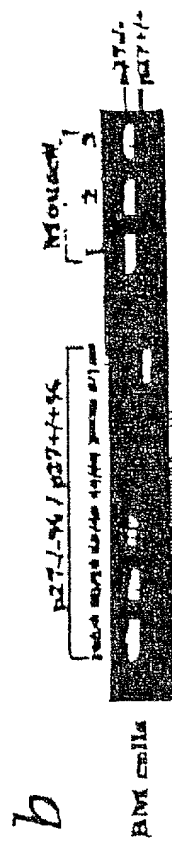
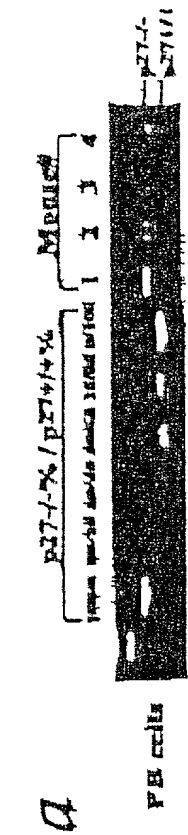


Figure 9C

Fig. 10



p21-antisense reduces the G_0 fraction of transduced CD34+ cord blood cells

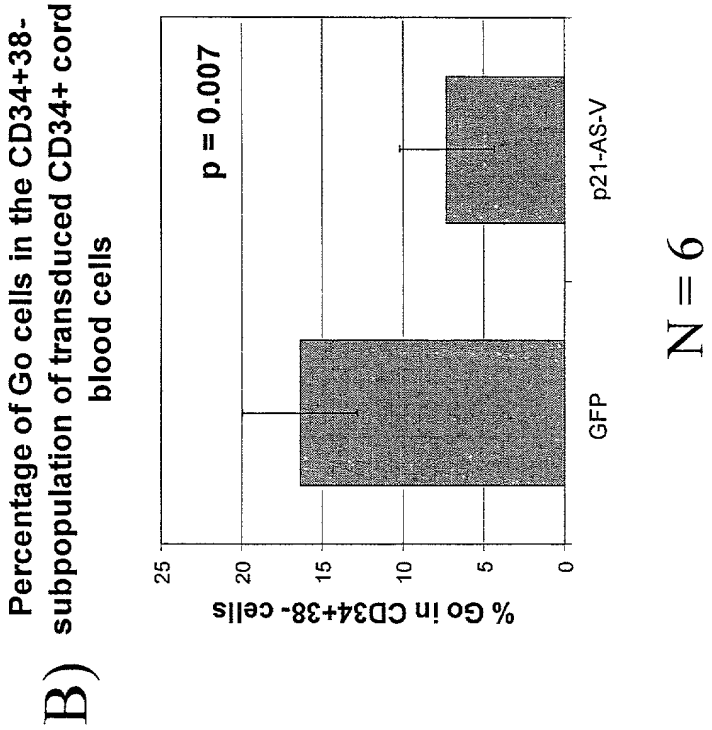
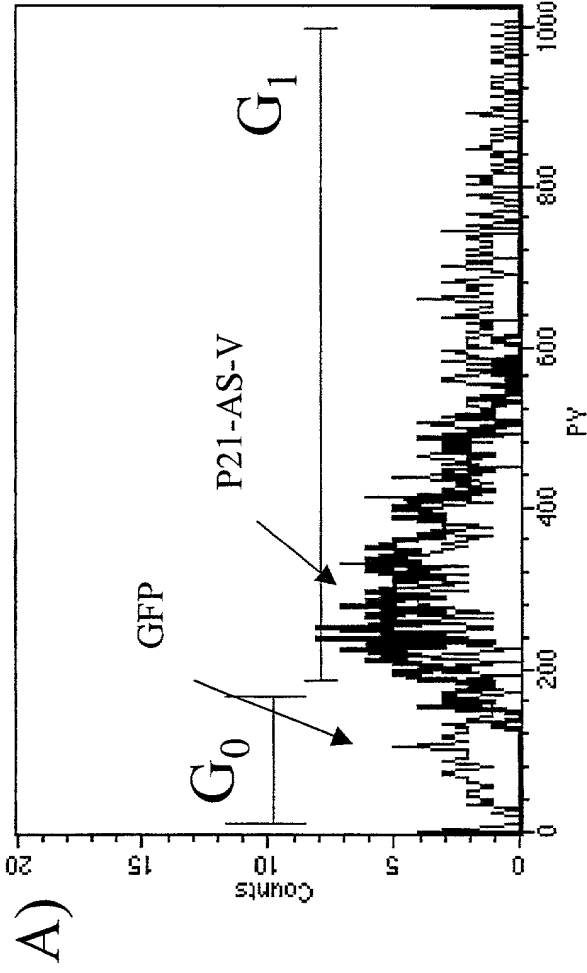
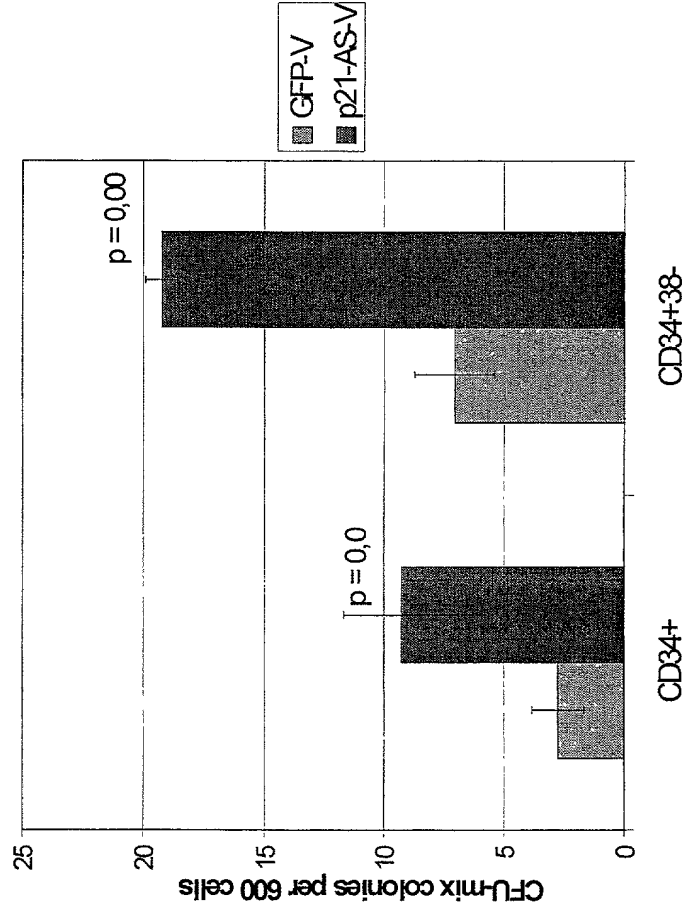


Fig. 11

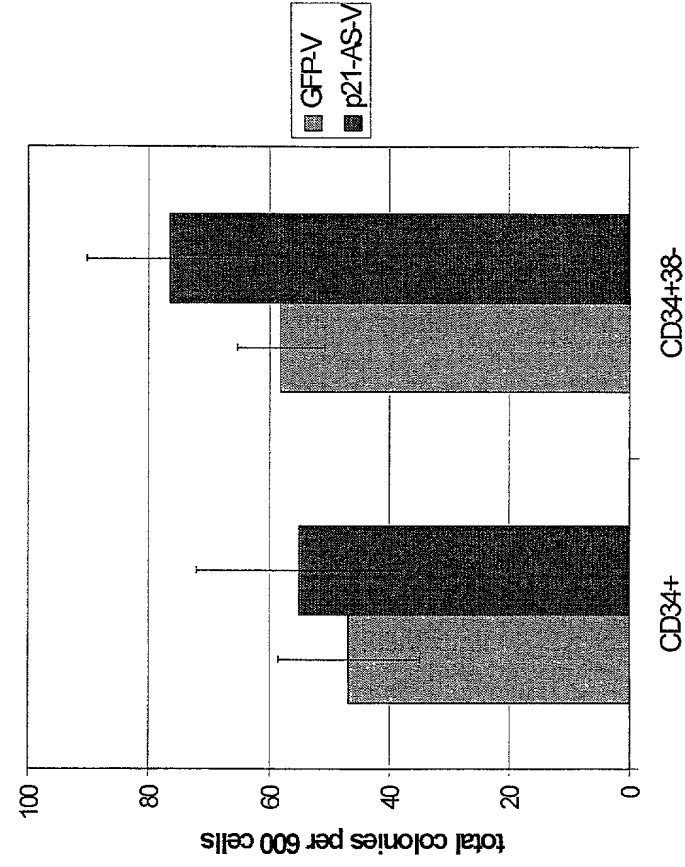
Fig. 12

Antisense-p21 increases primitive CFU-mix without altering total CFC in transduced CD34+ and CD34+38- cord blood cells

A) CFU-mix colonies of transduced progenitor cells



B) total colony number of transduced progenitor cells



Antisense-p21 expands LTC-IC as assessed by limit dilution analysis

Fig. 13

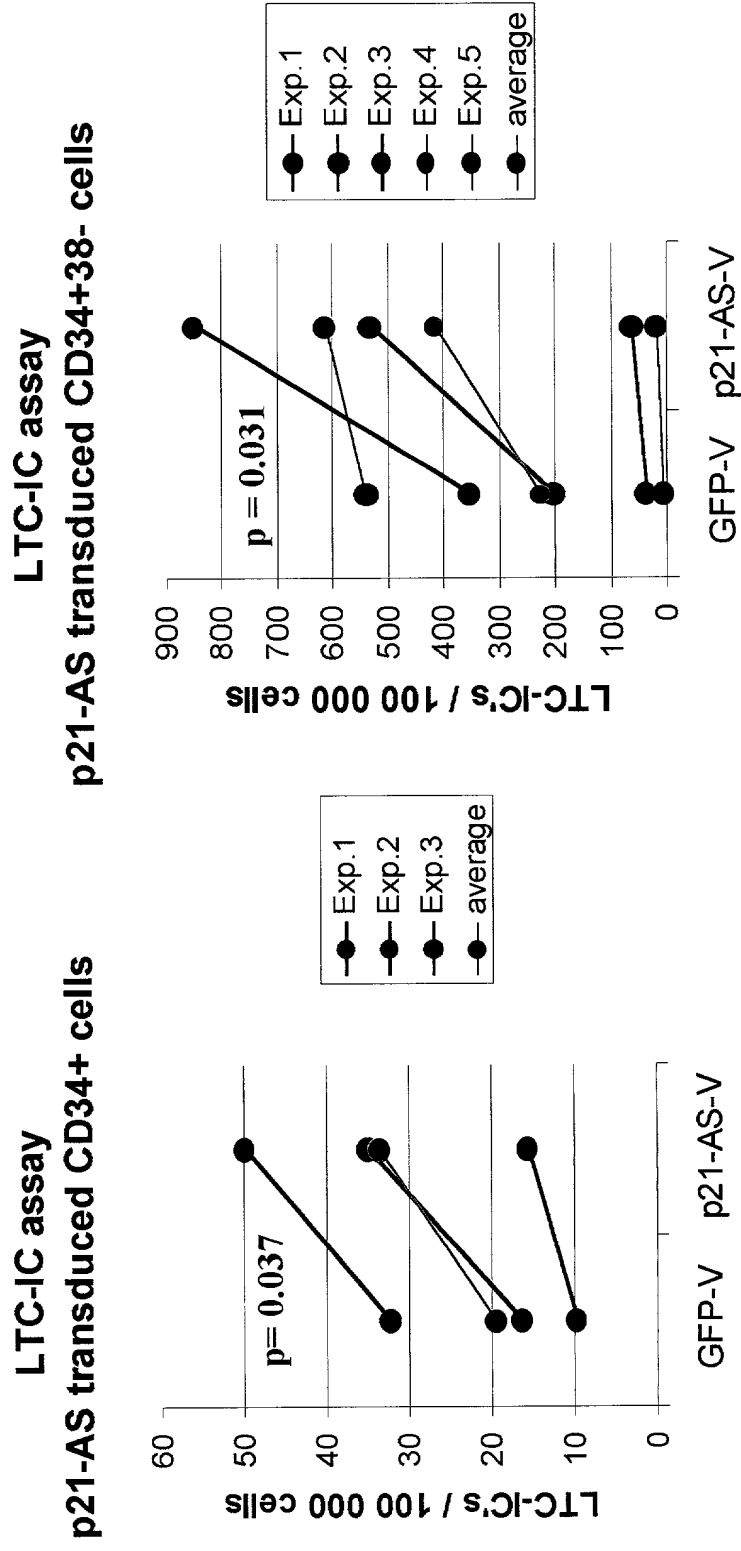


Fig. 14

p21^{Cip1} anti-sense enhances human CD34⁺ cell engraftment of NOD/SCID mice

